



wxGlue Documentation

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INTRODUCTION

`wxGlue.wxglue.StartEventLoop()`

Start the wx event loop after all code has been put in place

`class wxGlue.wxglue.wxGlue(frameclass)`

An object that “glues” controls to a frame (window) object. The frame is created from a class that is typically coded with wxGlade. The name of the class that defines the frame is passed to wxGlue on initialization. Calls to methods are then used to define settings for controls or actions linked to them

Parameters `frameclass (class)` – defines a class that can be used to create a frame. This class is usually coded using wxGlade.

`CloseFrame()`

Closes the frame (window) created by this object.

`Disable(lbl)`

Disables a control.

Parameters `lbl (str)` – the name of the control (widget)

`Enable(lbl, value=True)`

Enables or Disables a control.

Parameters

- `lbl (str)` – the name of the control (widget)
- `value (bool)` – Determines if the control will be enabled (value=True, default) or disabled (value=False).

`GetLabel(lbl)`

Returns the label associated with a control or a list of labels in the case of controls that select options. Note that some controls do not display a label, but still can have a label set.

Parameters `lbl (str)` – the name of the control (widget)

Returns the widget label, if defined (type str) or a list of labels for the wx.RadioBox, wx.Choice, wx.ComboBox or wx.ListBox controls.

`GetValue(lbl)`

Returns the value associated with a control. The type for the value is dictated by the type of the control, as shown in the table below:

Parameters `lbl (str)` – the name of the control (widget)

control	type
wx.TextCtrl	str or [float/int, if set by SetTextCtrlType()]
wx.Button	None
wx.StaticBitmap	None
wx.DatePickerCtrl	<i>datetime.date</i>
wx.calendar.CalendarCtrl	<i>datetime.date</i>
wx.ToggleButton	bool
wx.SpinCtrl	int
wx.CheckBox	bool
wx.RadioButton	bool
wx.RadioBox	int
wx.Gauge	float
wx.Slider	int
wx.StaticText	None
wx.Choice	int
wx.ComboBox	int
wx.ListBox	int

SetAction (*lbl*, *routine*, *args*=[], *kwargs*={})

Register a function that will be called when a control is activated

Parameters

- **lbl** (*str*) – the name of the control (widget)
- **routine** (*function*) – a function or method that will be called when the control is invoked, for example, by pressing a button
- **args** (*list*) – optional positional arguments to be supplied as parameters to the function *routine*
- **kwargs** (*dict*) – optional keyword arguments to be supplied as parameters to the function *routine*

SetEmptyInvalid (*lbl*, *value*=True)

Indicate that a control is invalid if it has a blank value. A control is considered to be blank if it has only whitespace characters [see `str.strip()`] or is null. The default is to allow controls to be considered valid if blank.

Parameters

- **lbl** (*str*) – the name of the control (widget)
- **value** (*bool*) – Value for setting: True (defaults) indicates that a control is invalid when blank

SetLabel (*lbl*, *value*)

Sets the label(s) associated with a control. Note that some controls do not display a label, for these items no change will be seen. Controls that contain multiple options (wx.RadioBox, wx.Choice, wx.ComboBox or wx.ListBox) require a list of labels (each an str). Note that for wx.RadioBox, the number of options cannot be changed, but for the rest, the number of labels in the list determines the new number of options in the control.

Parameters

- **lbl** (*str*) – the name of the control (widget)
- **value** (*str/list*) – the new label for control *lbl*, or a list of labels for wx.RadioBox, wx.Choice, wx.ComboBox or wx.ListBox.

SetMaxValue (*lbl*, *value*)

Set a maximum value that is allowed for the setting of a control

Parameters

- **lbl** (*str*) – the name of the control (widget)
- **value** (*int/float*) – the maximum allowed value for control *lbl*

SetMinValue (*lbl*, *value*)

Set a minimum value that is allowed for the setting of a control

Parameters

- **lbl** (*str*) – the name of the control (widget)
- **value** (*int/float*) – the minimum allowed value for control *lbl*

SetTextCtrlType (*lbl*, *typ*)

Set a variable type for a TextCtrl control. If the type is int or float, restrictions are placed on the characters that may be typed in the control. For int, valid characters are “+0123456789”, for float, the characters “.”, “e” and “E” are allowed in addition. Validation of the contents of the TextCtrl is performed when Return is pressed or another control is selected. This means checking if the can be converted to a valid int or float, if selected, or or is non-blank, if [SetEmptyInvalid\(\)](#) has been used to require non-blank values.

Parameters

- **lbl** (*str*) – the name of the control (widget)
- **typ** (*type*) – a type to be used for the TextCtrl value. Usually int or float (str is assumed if not called).

SetValidationRequired (*lbl*)

Indicate that a control will be disabled when other controls (such as TextCtrl controls) are set out of range. Ranges are set with [SetMinValue\(\)](#) and [SetMaxValue\(\)](#) and/or [SetEmptyInvalid\(\)](#)

Parameters **lbl** (*str*) – the name of the control (widget)

SetValue (*lbl*, *value*)

Change the value associated with a control. Note that the type for the value must be appropriate for the control, as shown in the table below:

Parameters

- **lbl** (*str*) – the name of the control (widget)
- **value** (*many*) – the value for control *lbl*, with type dictated by the table below. Note that for controls labeled (n/a), this method has no effect.

control	type
wx.TextCtrl	str or [float/int, if set by SetTextCtrlType()]
wx.Button	(n/a)
wx.StaticBitmap	(n/a)
wx.DatePickerCtrl	<i>datetime.date</i> or list of 3 integers as (yyyy,mm,dd)
wx.calendar.CalendarCtrl	<i>datetime.date</i> or list of 3 integers as (yyyy,mm,dd)
wx.ToggleButton	bool
wx.SpinCtrl	int
wx.CheckBox	bool
wx.RadioButton	bool
wx.RadioBox	int
wx.Gauge	float
wx.Slider	int
wx.StaticText	(n/a)
wx.Choice	int
wx.ComboBox	int
wx.ListBox	int

ShowValues()

For development, print all values in the self.Values dict.

TestIfValid()

Check if all items that have defined ranges have been set with valid values. All controls designated with self.SetValidationRequired() will be enabled or disabled accordingly.

Values = None

A dict indexed by a control label. Contains the current value for that input control. Also see [GetValue\(\)](#), which returns this value.

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